JC10 Rec'd PCT/PTO 2 0 JUN 2005

FORM PTO		U.S. DEPA	RTMENT OF	MERCE PATENT AND TRADEMARK OFFICE	OMER NO. 22,852				
REV. 2/017	-	MITTA	L LETI	ATTORNEY'S DOCKET NUMBER 09617.0001					
_				CTED OFFICE (DO/EO/US)	U.S. APPLICATION NO.				
CONCERNING A FILING UNDER 35 U.S.C. 371 (If known, see 37CFR1.5)									
			CATION NO		PRIORITY DATE CLAIMED				
PCT/JF	203/0453	1		April 9, 2003	April 9, 2002				
TITLE OF INVENTION									
METHOD OF JUDGING LEUKEMIA, PRE-LEUKEMIA OR ALEUKEMIC MALIGNANT BLOOD DISEASE AND DIAGNOSTIC THEREFOR									
				I HEREFUR					
	CANT(S)			TTA Chia ITO Hidamaa SATO Abiba EH	DINA Vanas CHITADA Call				
Kiyoshi ANDO, Tomomitsu HOTTA, Chie ITO, Hidenao SATO, Akiko FURUYA, Kenya SHITARA, Seiji SUGIMOTO, Hiroaki KOHNO									
Applican	nt(s) herew	ith submi	ts to the Un	ited States Designated/Elected Office (DO/EO/US) th	e following items and other information:				
1.		This is a	FIRST sub	mission of items concerning a filing under 35 U.S.C 3	371.				
2.	\boxtimes			or SUBSEQUENT submission of items concerning a	_				
3.			This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.						
4.				cted by the expiration of 19 months from the priority	date (Article 31).				
5.		A copy of	of the Intern	ational Application as filed (35 U.S.C. 371 (c)(2)).					
		a.		s attached hereto (required only if not communicated	by the International Bureau.				
		b.		has been communicated by the International Bureau.					
		c.		is not required, as the application was filed with the U	nited States Receiving Office (RO/US).				
6.		An Engl	ish languag	e translation of the International Application as filed (35 U.S.C. 371 (c)(2)).				
		a.		is attached hereto.					
		b.		has been previously submitted under 35 U.S.C. 154 (d	l)(4).				
7.		Amendn	nents to the	claims of the International Application under PCT Art	ticle 19 (35 U.S.C. 371 (c)(3)).				
		a.		are attached hereto (required only if not communicated	d by the International Bureau).				
		b.		have been communicated by the International Bureau.					
		c.		have not been made; however, the time limit for making	ng such amendments has NOT expired.				
		d.		have not been made and will not be made.					
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).							
9.		An oath	or declarati	on of the inventor(s) (35 U.S.C. 371 (c)(4)).					
10.		An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).							
			_						
Items 11 to 20 below concern document(s) or information included:									
11.		Informat	ion Disclos	ure Statement under 37 CFR 1.97 and 1.98					
12.		An assig	nment docu	ment for recording. A separate cover sheet in complia	ance with 37 CFR 3.28 and 3.31 is				
		included							
13.		A FIRST preliminary amendment.							
14.		A SECOND or SUBSEQUENT preliminary amendment.							
15.		A Substitute specification.							
16.		A change of power of attorney and/or address letter.							
17.	⊠	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.							
18.		A second copy of the published international application under 35 U.S.C. 154 (d)(4).							
19.		A second copy of the English language translation of the international application 35 U.S.C. 154 (d)(4).							
20.	\boxtimes		ms or infor		VO 00 100 2000 A 1				
}		a.		Copy of cover page of International Publication No. V	VO 03/085399 A I				
		b.		Copy of Notification of Missing Requirements.					
		C.		Sequence Listing in Written form consisting of 8 shee	ıs				

	U.S. APPLICATI						ATTORNEY'S DOCKET NUMBER		
	10/510,627			PCT/JP03/04531				09617.0001	
	21. 🛛 The	following fees	CALCULATIONS PTO USE ONLY						
-	BASIC NAT	IONAL FEE (
-	nor internatio	nal search fee ((37 CFR 1.445(a)(fee (37 CFR 1.482) 2)) paid to USPTO by the EPO or JPO\$1110.00					
		sternational preliminary examination fee (37 CFR 1.482) not paid to SPTO but International Search Report prepared by the EPO or JPO					\$950.00		
							\$790.00		
							\$750.00		
	International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33 (1)-(4)					\$100.00			
		ENTER APPROPRIATE BASIC FEE AMOUNT				EE AMOUNT =	\$		
	Surcharge of months from	rge of \$130.00 for furnishing the oath or declaration later than 20 30 5 from the earliest claimed priority date (37 CFR 1.492 (e)).						\$130.00	
	CLAIMS	NUN	BER FILED	NUMBER EXT	RA	RA	TE		
	Total Claims	45	- 20 =	25		x \$1	8.00	\$	
	Independent Cl	aims 11	-3 =	8		x \$8	8.00	\$	
	MULTIPLE DE	EPENDENT CLA	AIM(S) (if applicable	e)		+\$30	00.00	\$	
	TOTAL OF THE ABOVE CALCUI						CULATIONS =	\$130.00	
	Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½. SUBTOTAL = Processing fee of \$130.00 for furnishing the English translation later than					reduced by ½.	\$		
						SUBTOTAL =	\$130.00		
						\$			
	TOTAL NATIONAL FEE =					\$130.00			
	Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.					accompanied by	\$		
06/23/200	5 LLANDGRA 00000021 10510627 TOTAL FEES ENCLOSED =				\$130.00				
01 FC:161	130.00 OP				Amount to be refunded:	\$			
								charged:	\$
			· · · · · · · · · · · · · · · · · · ·	00 to cover the abo					
	b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.							re fees.	
	c.								rpayment to
	d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status. SEND ALL CORRESPONDENCE TO:								
								7 (a) or (b))	
	Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. 901 New York Avenue, N.W. Washington, D.C. 20001-4413 Ernest F. Chapman								
	DATED: June 20, 2005 NAME/REGISTRATION NO. 25							961	



United States Patent and Trademark Office

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U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT ATTY. DOCKET NO. 10/510,627 09617.0001

Kivoshi Ando

INTERNATIONAL APPLICATION NO.

PCT/JP03/04531

LA. FILING DATE PRIORITY DATE

04/09/2003

04/09/2002

22852 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER 901 NEW YORK AVENUE, NW **WASHINGTON, DC 20001-4413**

CONFIRMATION NO. 4183 371 FORMALITIES LETTER

OC000000015761186

Date Mailed: 04/18/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 10/08/2004
- English Translation of the IA filed on 10/08/2004
- Copy of the International Search Report filed on 10/08/2004
- Copy of IPE Report filed on 10/08/2004
- Information Disclosure Statements filed on 10/08/2004
- Biochemical Sequence Diskette filed on 10/08/2004
- Biochemical Sequence Listing filed on 10/08/2004
- U.S. Basic National Fees filed on 10/08/2004
- Priority Documents filed on 10/08/2004





The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$130 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

\$130 Late oath or declaration Surcharge.



A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of
the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as
indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a
substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content
of the sequence listing information recorded in computer readable form is identical to the written (on paper
or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR
1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

WINSTON M ALVARADO

Telephone: (703) 308-9140 EXT 206

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.		
10/510,627	PCT/JP03/04531	09617.0001		

FORM PCT/DO/EO/905 (371 Formalities Notice)



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/5/0

Source:

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
 - 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
 U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Please mail this report with the 905.

Ninston Alvarsdo
National Stage Processing
Paralagai Spacialist
(703) 365-8421



RAW SEQUENCE LISTING

DATE: 10/16/2004

PATENT APPLICATION: US/10/510,627

TIME: 08:51:44

Input Set : N:\FATIMA\10510627.txt

Output Set: N:\CRF4\10162004\J510627.raw

3 <110> APPLICANT: TOKAI UNIVERSITY

KYOWA HAKKO KOGYO CO., LTD.

KYOWA MEDEX CO., LTD.

7 <120> TITLE OF INVENTION: A diagnostic method and a diagnostic agent for

leukemia, preleukemia and leukemic malignant hemopathy

10 <130> FILE REFERENCE: 11470WO1

C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/510,627

C--> 13 <141> CURRENT FILING DATE: 2004-10-08

15 <150> PRIOR APPLICATION NUMBER: JP P2002-106786

16 <151> PRIOR FILING DATE: 2002-04-09

18 <160> NUMBER OF SEQ ID NOS: 11

20 <170> SOFTWARE: PatentIn Ver. 2.1

lose Not Comply ected Diskette Needer

ERRORED SEQUENCES

270 <210> SEQ ID NO: 11

271 <211> LENGTH: 18

272 <212> TYPE: DNA

273 <212 ORGANISM: Artificial Sequence W--> 275 (220) FEATURE:

W--> 275 223 OTHER INFORMATION:

W--> 275 < 400 > 11

276 ttttgggggc tttggtgg

E--> 288 /8/8

-) see p. 2 for evor exploration

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/510,627 DATE: 10/16/2004 TIME: 08:51:45

Input Set : N:\FATIMA\10510627.txt

Output Set: N:\CRF4\10162004\J510627.raw

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings. Use of <220 to <223 is MANDATORY if <213 ORGANISM is "Artificial Sequence" or"Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)

sach of these sequences has the above enou (Sec.1.823 of new Rules)

sel p. 3 for more enou

.. Ala Leu Gly Leu Pro Ala Gly Arg Gly Asp Glu Asn Pro Ala Gly Thr

Jegveru Lesterj

do not show page humbers in the computer readable file of the Sequence Listing

(per 1.824 of Seguera Rules,

VERIFICATION SUMMARY PATENT APPLICATION: US/10/510,627

CATION: US/10/510,627 TIME: 08:51:45

DATE: 10/16/2004

Input Set : N:\FATIMA\10510627.txt
Output Set: N:\CRF4\10162004\J510627.raw

L!12 M:270 C: Current Application Number differs, Replaced Application Number L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 L:247 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:8, <213> ORGANISM: Artificial Sequence L:247 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:8, <213> ORGANISM: Artificial Sequence L:247 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:8,Line#:247 L:252 M:259 W: Allowed number of lines exceeded, <210> SEQ ID NO L:257 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:9, <213> ORGANISM: Artificial Sequence L:257 M:258 W: Mandatory Feature missing; <223> Tag not found for SEQ#:9, <213> ORGANISM: Artificial Sequence L:257 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:257 L:266 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213> ORGANISM: Artificial Sequence L:266 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:10, <213> ORGANISM: Artificial Sequence L:266 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:266 L:275 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:11, <213> ORGANISM: Artificial Sequence L:275 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:11, <213> ORGANISM:Artificial Sequence L:275 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:275 L:288 M:254 E: No. of Bases conflict, LENGTH:Input:8 Counted:19 SEQ:11

L:288 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2 L:288 M:252 E: No. of Seq. differs, <211> LENGTH:Input:18 Found:19 SEQ:11